10/552291

JC20 Rec'd PCT/PTO 03 OCT 2005

SEQUENCE LISTING

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Cys Lys 65	Gin Trp Tyr Gin Arg Lys He Cys Gly Lys Ser Thr Val He 70 75 80
Ser Tyr	Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly 85 90 95
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Val Gly	Ser Thr Thr Thr Gin Leu Tyr Thr Asp Arg Thr Giu Lys Leu 115 120 125
Arg Pro 130	Glu Met Glu Gly Pro Gly Ser Phe Thr lle Phe Ala Pro Ser 135 140
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- Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr 180 185 190
- Ser Met Tyr GIn Asn Ser Asn IIe GIn IIe His His Tyr Pro Asn Gly 195 200 205
- lle Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala 210 215 220
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- Asn Asn IIe GIn GIn IIe IIe GIu IIe GIu Asp Thr Phe GIu Thr Leu 245 250 255
- Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn 260 265 270
- Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile 275 280 285
- Pro Ser Glu Thr Leu Asn Arg IIe Leu Gly Asp Pro Glu Ala Leu Arg 290 295 300
- Asp Leu Leu Asn Asn His IIe Leu Lys Ser Ala Met Cys Ala Glu Ala 305 310 315 320
- lle Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu 325 330 335
- Val Gly Cys Ser Gly Asp Met Leu Thr IIe Asn Gly Lys Ala IIe IIe 340 . 345 . 350
- Ser Asn Lys Asp lie Leu Ala Thr Asn Gly Val lie His Tyr lie Asp 355 360 365
- Glu Leu Leu IIe Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala 370 375 380
- Glu Ser Asp Val Ser Thr Ala IIe Asp Leu Phe Arg Gln Ala Gly Leu 385 390 395 400
- Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu 405 410 415
- Asn Ser Val Phe Lys Asp Gly Thr Pro Pro lle Asp Ala His Thr Arg 420 425 430

- Asn Leu Leu Arg Asn His IIe IIe Lys Asp Gln Leu Ala Ser Lys Tyr 435 440 445
- Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg 450 455 460
- Val Phe Val Tyr Arg Asn Ser Leu Cys IIe Glu Asn Ser Cys IIe Ala 465 470 475 480
- Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg 485 490 495
- Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp 500 505 510
- Asn Arg Phe Ser Met Leu Val Ala Ala IIe Gln Ser Ala Gly Leu Thr 515 520 525
- Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn 530 535 540
- Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly 545 550 555 560
- Asp Ala Lys Glu Leu Ala Asn IIe Leu Lys Tyr His IIe Gly Asp Glu 565 570 575
- lle Leu Val Ser Gly Gly lle Gly Ala Leu Val Arg Leu Lys Ser Leu 580 585 590
- Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val 595 600 605
- Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val 610 615 620
- Val His Val He Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln 625 630 635 640
- Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu He Phe Lys Gln 645 650 655
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Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu 35 40 45

Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn 50 55 60

Ser Asn IIe GIn IIe His His Tyr Pro Asn GIy IIe Val Thr Val Asn 65 70 75 80

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20 25 30

Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys IIe Pro 35 40 45

Ser Glu Thr Leu Asn Arg IIe Leu Gly Asp Pro Glu Ala Leu Arg Asp 50 55 60

Leu Leu Asn Asn His IIe Leu Lys Ser Ala Met Cys Ala Glu Ala IIe 65 70 75 80

Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val 85 90 95

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Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu 50 55 60

Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly 65 70 75 80

Gly lle Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu 85 90 95

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Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp 35 40 45

Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu 50 55 60

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Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala 35 40 45

Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu 50 55 60

Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly 65 70 75 80

Gly lle Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu 85 90 95

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Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn Glu Ala Phe Arg Ala 35 40 45

Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu 50 55 60

Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu Ile Leu Val Ser Gly 65 70 75 80

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Ser Glý Gly He Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp 35 40 45

Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu 50 55 60

Pro Val Ala Glu Pro Asp lle Met Ala 65 70

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